

AN 1985:599767 CAPLUS <<LOGINID::20080622>>
DN 103:199767
OREF 103:32150h,32151a
TI Surface-hardening silver alloys with wear and corrosion resistance
PA Mitsubishi Metal Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60110867	A	19850617	JP 1983-217470	19831118
	JP 62002626	B	19870121		
PRAI	JP 1983-217470		19831118		

AB The Ag alloys with a boronized Mn layer contain Mn 0.5-35, optionally ≥ 1 of Cu 0.5-35, Cr 0.1-1, Fe 0.1-10, Ni 0.1-10, Co 0.1-10, Zn 0.1-5, and Cd 0.1-5 (with Cr + Fe + Ni + Co < 10 and Zn + Cd < 5), ≥ 1 of In, Pd, and Sr as corrosion-resistant elements 0.5-10, and/or ≥ 1 of Al, Ti, Zr, and Si as B-diffusion promoting agents 0.1-3%. Thus, a hot-rolled plate of Ag alloy [99087-30-6] containing Mn 15.2, Ni 3.2, Cr 4.3, and Co 1.1% was boronized in a B4C-H3PO3-Na2BuO7 (80:10:10) bath at 800°, cleaned, and exposed to air containing 100 ppm H2S. The boronized plate had Vickers hardness 1620 (vs. 110 without boronizing), and was not blackened in 300 h.